

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) A method for producing calcium fluoride, said method comprising:

reacting a fluoride-containing effluent that has a pH 3 or higher together with an aqueous calcium chloride solution in a reactor under acidic condition with hydrochloric acid to deposit calcium fluoride particles, wherein the acidic condition is pH 2 or lower;

reacting a fluoride-containing effluent that has a pH 3 or higher with an aqueous calcium chloride solution in a reactor, wherein the reaction is maintained at pH 1.5 or lower with hydrochloric acid to deposit calcium fluoride particles;

wherein the calcium fluoride particles have a purity of 98% or higher, and wherein an average particle size of the calcium fluoride particles is between 5 to 300  $\mu\text{m}$ ;

then recovering said particles,

wherein the step of reacting is performed at room temperature or at a temperature between 30 to 90  $^{\circ}\text{C}$  and provides a produced or residual quantity of hydrochloric acid, and wherein the hydrochloric acid is produced by the reacting step or is supplied externally;

reacting the produced or residual quantity of hydrochloric acid with a calcium compound to produce an aqueous calcium chloride-containing liquid; and

reusing the aqueous calcium chloride-containing liquid in the aqueous calcium chloride solution in the step of reacting the fluoride-containing effluent.
2. (canceled)
3. (currently amended) The method according to claim 1, wherein the fluoride-containing effluent and/or the aqueous calcium chloride-containing liquid solution contain

hydrochloric acid, or an aqueous hydrochloric acid solution is separately introduced continuously or intermittently into the reaction system.

4. (canceled)
5. (canceled)
6. (canceled)
7. (currently amended) A method for producing calcium fluoride, said method comprising:

reacting an at least 2.2% to 17.2% hydrofluoric acid-containing effluent with an aqueous calcium chloride solution in a reactor under acidic condition with hydrochloric acid to deposit calcium fluoride particles, wherein the acidic condition is pH 2 or lower, wherein the reaction is maintained at pH 1.5 or lower with hydrochloric acid, to deposit calcium fluoride particles;

wherein the calcium fluoride particles have a purity of 98% or higher, and wherein an average particle size of the calcium fluoride particles is between 5 to 300  $\mu\text{m}$ ;

and then recovering said particles;

wherein the step of reacting is performed at room temperature or at a temperature between 30 to 90  $^{\circ}\text{C}$  and provides a produced or residual quantity of hydrochloric acid, wherein the hydrochloric acid is produced by the reacting step or is supplied externally;

reacting the produced or residual quantity of hydrochloric acid with a calcium compound to produce an aqueous calcium chloride-containing liquid; and

reusing the aqueous calcium chloride-containing liquid in the aqueous calcium chloride solution in the step of reacting the fluoride-containing effluent.
8. (canceled)

9. (currently amended) The method according to claim 7, wherein the hydrofluoric acid-containing effluent and/or the aqueous calcium chloride-containing liquid solution contain hydrochloric acid, or an aqueous hydrochloric acid solution is separately introduced continuously or intermittently into the reaction system.

10-12. (canceled)

13. (previously presented) A method for recycling calcium fluoride, characterized in that the calcium fluoride recovered by the method according to claim 1 or 7 is supplied as a raw material for producing hydrogen fluoride.